

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-050711

(43)Date of publication of application : 20.02.1996

(51)Int.Cl.

G11B 5/455

(21)Application number : 06-183539

(71)Applicant : NEC CORP

(22)Date of filing : 04.08.1994

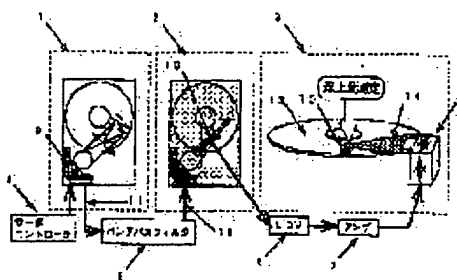
(72)Inventor : MIZUTA MASATOMO

## (54) METHOD AND EQUIPMENT FOR MEASURING BEHAVIOR OF MAGNETIC HEAD

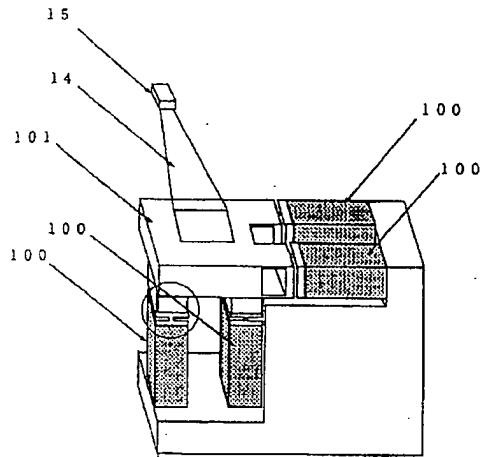
### (57)Abstract:

**PURPOSE:** To reproduce the vibration of an access mechanism with fidelity by a floating amount measuring part and to measure a dynamic behavior of a magnetic head with high accuracy, by measuring the vibration of the fore end of an arm of the access mechanism of a magnetic disk by a noncontact sensor.

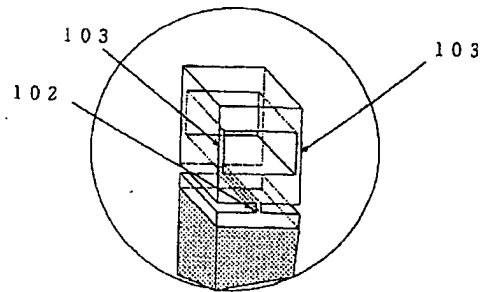
**CONSTITUTION:** In a device 1, a seek operation is conducted according to a seek pattern from a servo controller 4 and a drive current 11 of an actuator 9 at that time is measured. Besides, the vibration of the fore end part 10 of an arm is measured by a laser Doppler vibration meter 6 of a noncontact sensor, and torsional vibrations of the arm in the vertical direction and the seek direction and vibration in the rotational direction are measured respectively. A suspension 14 and a slider 15 are provided in a floating amount measuring part 3, while an exciting device 8 is disposed at the base part of the suspension 14, and the vibration of the fore end part 10 of the arm measured by the vibration meter 6 is reproduced by a piezoactuator exciting device. Fluctuation of the floating amount of the slider 15 at that time is calculated by conversion from the intensity of interference light generated in a gap between a glass disk 13 and the slider 15 by using laser light.



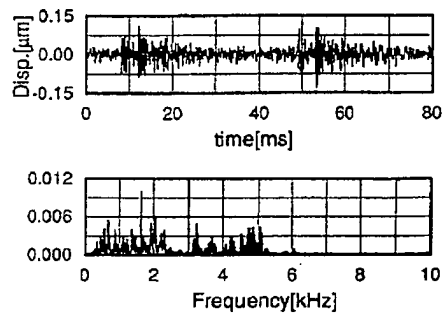
【図2】



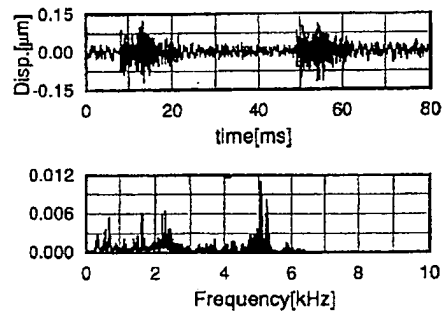
【図3】



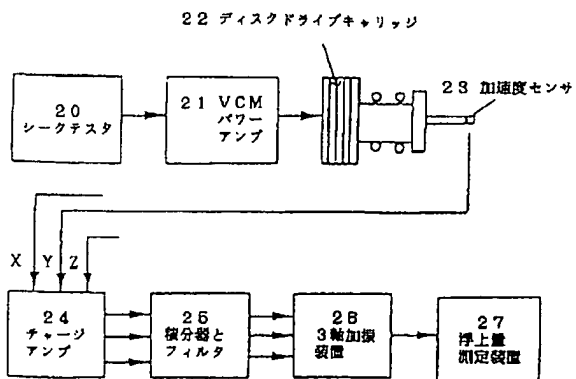
【図4】



【図5】



【図6】



【図 7】

